



Attorney Docket No.: 042390.P6702

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#13/B
W. J. Janssen
7/23/01

In re application of:

Piazza, et al.

Application No: 09/227,174

Filed: January 7, 1999

For: METHOD AND APPARATUS FOR
PERFORMING MOTION
COMPENSATION IN A TEXTURE
MAPPING ENGINE

Examiner: R. Lee

Art Unit: 2613

RECEIVED

JUL 20 2001

Technology Center 2600

Assistant Commissioner For Patents
Washington, D.C. 20231

AMENDMENT

Dear Sir:

In response to the Office Action mailed April 30, 2001, please enter the following amendment and consider the following remarks.

IN THE SPECIFICATION

Please replace the paragraph beginning on page 9, line 13 with:

B1
In general, motion compensation consists of reconstructing a picture by predicting, either forward, backward, or bi-directionally, the resulting pixel colors from one or more reference pictures. Figure 4 illustrates two reference pictures and a bi-directionally predicted reconstructed picture. In one embodiment, the pictures are divided into 16 pixel by 16 pixel macroblocks; however, other macroblock sizes (e.g., 16x8, 8x8) can also be used. A macroblock is further divided into 8 pixel by 8 pixel blocks.

Please replace the paragraph beginning on page 10, line 5 with:

B2
Figure 5 illustrates a conceptual representation of pixel data suitable for use with the invention. Each macroblock has 256 bytes of luminance (Y) data for

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